



SILICON
VALLEY

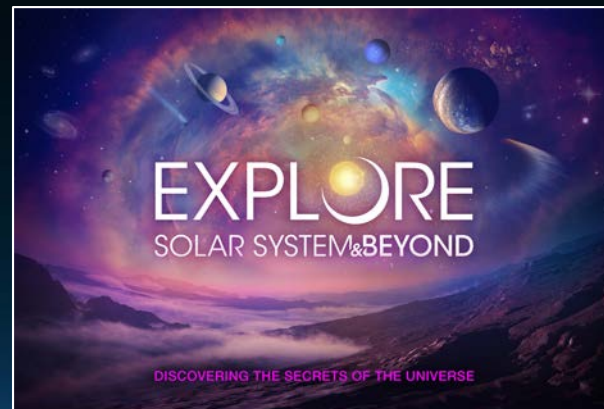
AMES RESEARCH CENTER

A full-page background image showing a view of Earth from space. The sun is rising over the horizon, creating a bright orange glow and illuminating the Earth's surface. The Earth's curvature is visible, with a blue atmosphere and white clouds. The sky is dark with some stars visible.

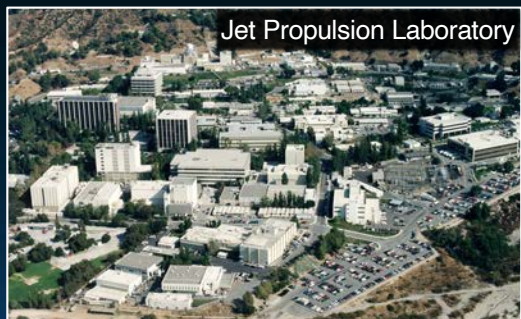
NASA Ames Research Center

Missions and Capabilities

Dr. Eugene Tu
Center Director

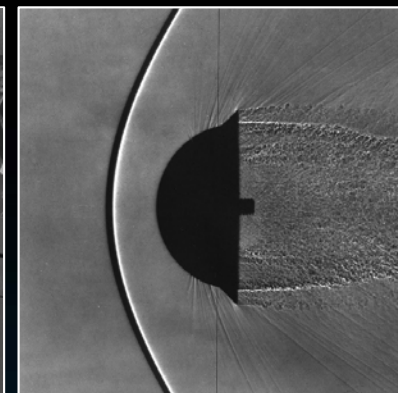


NASA Centers



Ames Aeronautical Laboratory

The NACA's Second Laboratory



NACA Est. 1915

Langley – 1917
Ames – 1939
Research Hangar
7x10-foot Tunnels
40x80-foot Full Scale
16-foot High Speed
12-foot Pressure Tunnel

1940s: Quick & Practical

De-icing
Duct Rumble
Aileron Flutter
Buffeting
Dive Control

The Supersonic Age

Swept Wings
Supersonic Tunnels
Supersonic Area Rule
Conical Camber
Hypervelocity Research

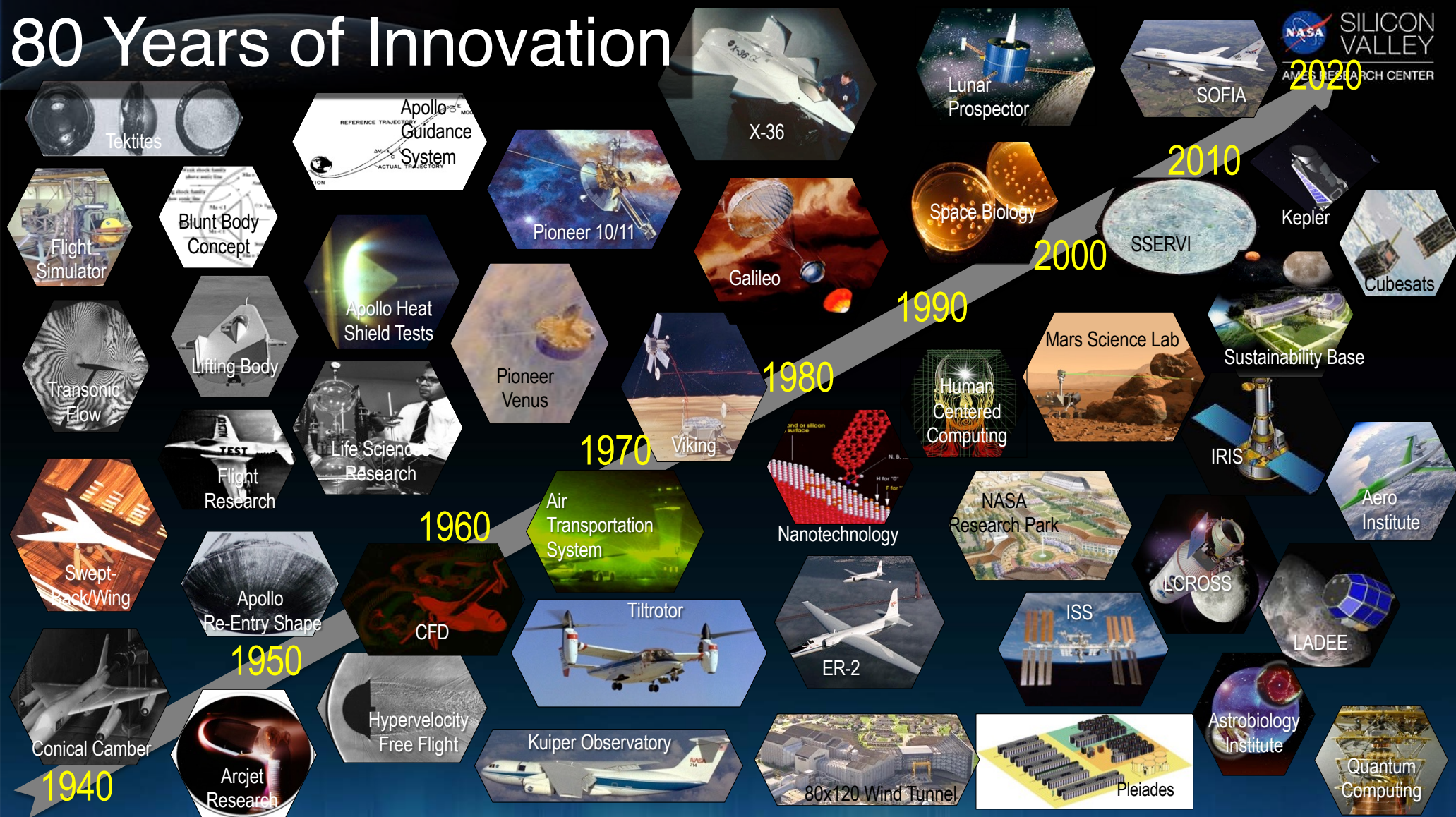
1950s

Simulation
Unitary Tunnel
Blunt Body Concept

NACA Becomes NASA

Reentry Studies
Arc Jet Development
Spaceflight Projects

80 Years of Innovation



Ames Today



Occupants

- ~1,200 civil servants*
- ~1,900 on-site contractors*
- ~2,500 NRP workforce*
- ~700 summer students in 2019*

FY20 Budget

- ~\$1,011M (est.) & includes reimbursable/EUL*

Real Property

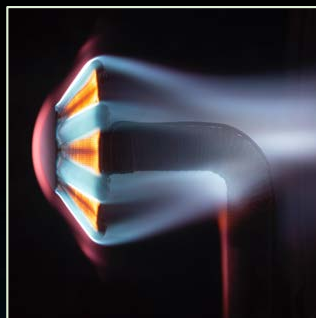
- ~1,900 acres*
- 400 acres security perimeter*
- 5M building ft²*
- Airfield with ~9,000 and 8,000 ft. runways*

Core Competencies

Air Traffic
Management



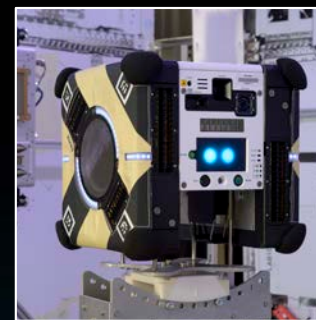
Entry Systems



Advanced Computing
& IT Systems



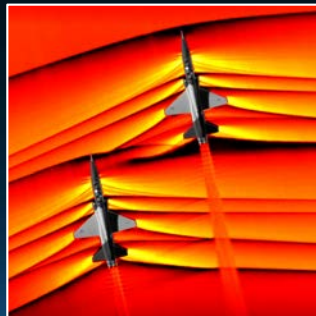
Intelligent &
Adaptive Systems



Cost-Effective
Space Missions



Aerosciences



Astrobiology & Life
Science

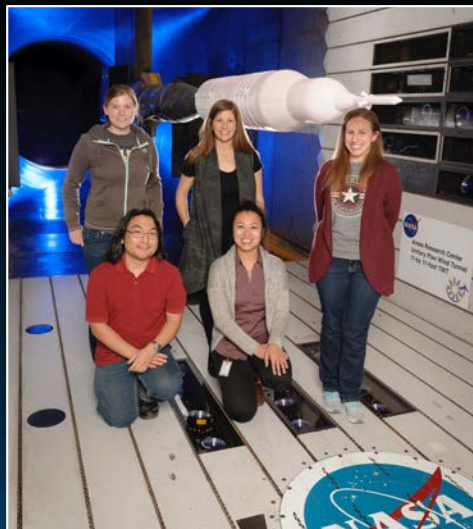


Space & Earth
Sciences



Major Research Facilities

Wind Tunnels



Arc Jet Complex



Simulators



Supercomputing



Evaluating Sustainable Aviation Aircraft Configurations (Unitary Plan Wind Tunnel Facility)



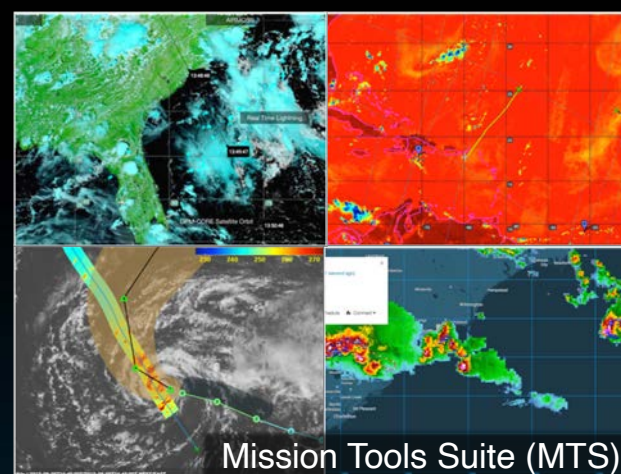
Large Scale Simulations of Sustainable Aviation Operations (Future Flight Central)



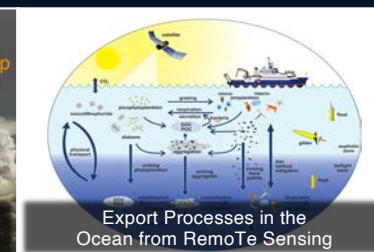
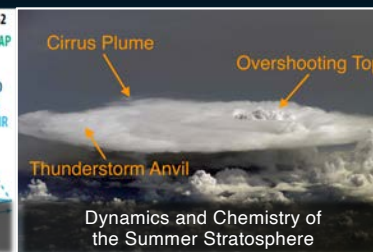
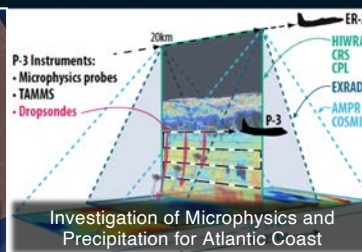
Airborne Earth Science Helps Us Understand and Mitigate Climate Change Effects/Impacts



**New
unmanned
aircraft** available
to science from
SUAS to HALE



**Next-Gen
onboard
hardware:**
computing,
instruments,
and SATCOM



Research For Wildfire And Disaster Support (Capabilities In The Field)





EXPLORE FLIGHT

WE'RE WITH YOU WHEN YOU FLY

